

Listing of Claims

1. (Original) A magnetizing fixture for connection to an electrical power supply having a first and a second electrical connection, the magnetizing fixture comprising:
 - a. a first electrical connection to the power supply;
 - b. a second electrical connection to the power supply;
 - c. an electrically conductive structure comprising a plurality of electrically conductive elements and an electrically conductive top, each element having a first end coupled to one of the first and second electrical connections, each element having a second end coupled to the electrically conductive top; and
 - d. an electrically conductive core of substantial magnetic permeability having a top surface coupled to the electrically conductive top, a bottom surface, and a plurality of channels communicating from the top surface to the bottom surface, wherein the top and bottom surfaces and the channels are coated with an electrically insulating layer and wherein each electrically conductive element is contained within a channel.
2. (Original) The magnetizing fixture as defined in claim 1, wherein the channels are open.
3. (Original) The magnetizing fixture as defined in claim 2, wherein the electrically conductive elements are completely contained laterally within the channels.
4. (Original) The magnetizing fixture as defined in claim 1, wherein the insulating layer comprises a plurality of insulating sublayers.
5. (Original) The magnetizing fixture as defined in claim 4, wherein the insulating layer comprises a first and a second insulating sublayer, wherein the first insulating sublayer is comprised of nickel, chromium, aluminum, and yttrium.
6. (Original) The magnetizing fixture as defined in claim 5, wherein the insulating layer comprises a first and a second insulating sublayer, wherein the second insulating sublayer is comprised of stabilized zirconia.

7. (Original) The magnetizing fixture as defined by claim 1 further comprising a soldering material securing the first and second electrical connections to the electrically conductive structure, the soldering material having a material melting point, the insulating layer having a melting point that is greater than the material melting point.

8. (Original) The magnetizing fixture as defined in claim 1, wherein adjacent electrically conductive elements are connected to different electrical connections.

Please cancel claims 9 – 23.